



## State of Idaho

# DEPARTMENT OF WATER RESOURCES

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DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

January 24, 2005

David Keele  
HC 60 Box 255  
Moore, ID 83255

Re: Plan for Antelope Creek Measuring Device

Dear Mr. Keele,

IDWR staff has reviewed the plan you submitted for the weir to be located downstream of the existing headgate. This device is to be used in monitoring your water right numbers 34-932 and 34-413C and several rights owned by Antelope Valley Ranches. This device is acceptable, subject to the following modification:

1. A staff gage or ruler is needed on the upstream side of the weir opening. The staff gage should be securely anchored to the channel bank, and zeroed to the bottom of the weir opening. It should be located at least 2-feet upstream of the weir opening.

The total combined maximum diversion for this location is about 12 cfs (600 miner's inches). The 7-foot weir opening is sufficient for this flow, and could be decreased to 4-feet to provide more accurate measurements at lower flows.

This letter should be considered as certification of approval that the proposed measuring device, as modified to include a staff gage, meets or exceeds IDWR standards. If you have further questions, call me at 208-287-4957.

Sincerely,

Steve Burrell, P.E.  
Water Distribution Section

c: IDWR – Eastern Region  
Bob Duke, Watermaster – WD 34, Mackay  
2005 WD 34 file